(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 13 May 2004 (13.05.2004)

PCT

(10) International Publication Number WO 2004/039330 A3

(51) International Patent Classification7:

A61K 31/415

(21) International Application Number:

PCT/US2003/034837

- (22) International Filing Date: 30 October 2003 (30.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/422,712

30 October 2002 (30.10.2002)

- (71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 5th floor, Oakland, CA 94607-5200 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOEHLER, Ralf [DE/DE]; Schudomastrasse 36, 12055 Berlin (DE). WULFF, Heike [DE/US]; 5106 Palo Verde Road, Irvine, CA 92612 (US). HOYER, Joachim [DE/DE]; Kreutzerweg. 33, 12203 Berlin (DE). CHANDY, K., George [US/US]; 1218 Morning Side Drive, Laguna Beach, CA 92651 (US). CAHALAN, Michael, D. [US/US]; 12 St. Remy Court, Newport Coast, CA 92657 (US).
- (74) Agent: BUYAN, Robert, D.; Stout, Uxa, Buyan & Mullins LLP, 4 Venture, Suite 300, Irvine, CA 92618 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 22 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOUNDS, METHODS AND DEVICES FOR INHIBITING NEOPROLIFERATIVE CHANGES IN BLOOD VESSEL WALLS

(57) Abstract: Methods, compositions and devices for inhibiting neoproliferative changes in blood vessel walls or other anatomical structures. One or more compounds of Formula (I) or (I-A) set forth herein are administered systemically and/or locally to human or veterinary patients to deter or prevent unwanted proliferative changes in blood vessels or other anatomical structures. The invention may be used to deter or prevent stenosis or restenosis of arteries following angioplasty and/or stent placement. In one embodiment, there is provided an implantable stent or stent graft from which one or more compounds of the present invention will elute or otherwise be delivered into an affected blood vessel wall.

